

Greek Optical Core Router QSFP-DD



Overview

The module is designed for ZR 400G DCI / PTN applications and ZR+200G metro long-haul OTN applications. It provides high-speed data channels, IIC interface module control and state alarm reporting with 3. Cisco QSFP-DD and OSFP 800G ZR/ZR+ digital coherent optics modules enable 800G traffic over amplified Dense Wavelength-Division Multiplexing (DWDM) links up to 120 km for 800ZR and over 1000 km for 800G ZR+. Nokia coherent routing utilizes a new generation of digital coherent optics (DCOs) equipped in router interface ports to n the router-pluggable QSFP-DD format. Developed by the Optical Internetworking Forum (OIF) and released in March 2020, 400ZR is. Quad Small Form-factor Pluggable Double Density (QSFP-DD) solution that fits into high-density switch and router client ports for optical interconnect links Powered by Greylock and Delphi DSP ASICs, and silicon photonic integrated circuits (PICs) for an optimized co-packaged design with 3D. ZR+, Standard Tx output power (-10dBm), C-band tunable, Pull tab, 0°C to 70°C, LC receptacle The emerging OIF 400ZR and Open ZR+ MSA coherent transceivers in QSFP-DD and OSFP form factors generally have low transmit output power (-10 dBm), making them incompatible with ROADM networks. Consequently. QSFP-DD is a new module and cage/connector system similar to current QSFP, but with an additional row of contacts providing for an eight lane electrical interface. It is being developed by the QSFP-DD MSA as a key part of the industry's effort to enable high-speed solutions.

Article Content

Jul 01, 2025

QSFP DD Guide: High-Speed QSFP DD Optical Modules

Learn how QSFP DD enables high-speed 400G networking with higher density, compatibility, and performance for modern data centers.

Oct 14, 2025

Comprehensive Guide to 400G/800G QSFP-DD Optical

From a technological perspective, both 400G and 800G QSFP-DD modules benefit from significant advancements. Silicon photonics has played a

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QSFP-DD Product Family » Acacia

Powered by Greylock and Delphi DSP ASICs, and silicon photonic integrated circuits (PICs) for an optimized co-packaged design with 3D Siliconization. Supports an expansive list of interoperability

Mar 25, 2026

Complete Guide to QSFP-DD, QSFP28, QSFP56,

Complete Guide to QSFP-DD, QSFP28, QSFP56, SFP56, and SFP28 Optical Modules As high-speed networks continue to evolve, optical transceivers like

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400G QSFP-DD and OSFP Transceivers | A Direct

Read a direct comparison here of how the two form factors, QSFP-DD and OSFP, of 400G modules differ in terms of compatibility, performance,

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QSFP-DD Optical Module Overview: What is the differ?

The QSFP-DD is the smallest 400G form factor optical module on the market today. It is also the optical module that offers the highest transmission

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MikroTik · SFP/QSFP

QSFP-DD optical module for reliable 400G fiber connections within ultra-fast setups, like the CRS812 and CRS804!

Oct 06, 2025

40G QSFP: The Core of Optical Network Interconnection

Moreover, the fiber cables carry the embedded optical signals, which previously have been converted by the QSFP-DD modules from electrical signals.

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Complete Guide to 400G QSFP-DD Optical

The 400G QSFP-DD Optical Transceivers represent the next evolution in high-speed connectivity solutions for data centers and Ethernet applications.

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QSFP-DD Fibre Optic Transceiver Technology Overview

The QSFP-DD (Quad Small Form-factor Pluggable – Double Density) form-factor is used for 200G, 400G and 800G applications and is backward compatible with

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QSFP-DD Optical Transceivers Unlocking Faster

QSFP-DD Optical Transceivers deliver up to 800Gbps speeds, offering high bandwidth, energy efficiency, and compatibility for modern networks

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Cisco 100GBASE QSFP-DD 100G ZR Module Data Sheet

The Cisco 100G Quad Small Form-Factor Pluggable Double-Density (QSFP-DD) 100G ZR provides customers with a 100 Gigabit Ethernet ZR

Feb 28, 2026

All About QSFP Cables, Connectors, and More

The result is a small tolerance loop between the optical devices and lenses, which leads to very high yields. QSFP Optical Transceivers Optical

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The Ultimate Guide to QSFP Cable: Everything You

They include: QSFP+: This is the most common type that supports up to 40Gbps in data centers. QSFP28: It has a higher bandwidth than QSFP+,

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QSFP-DD vs. OSFP: From 400G to 800G and Beyond

The latter has a slight operational advantage. In most cases, QSFP-DD is directly backward-compatible with current QSFP28 (100G) optics, while OSFP

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QSFP-DD TRANSCEIVERS for 400G and 800G

QSFP-DD is the most widely adopted form factor for 400G, with great potential for 800G. While QSFP-DD prioritizes backward compatibility, OSFP's larger surface

Nov 22, 2025

400G QSFP-DD Cable and Transceiver Modules Data Sheet

Product overview The FS® 400GBASE Quad Small Form-Factor Pluggable Double Density (QSFP-DD) portfolio offers customers a wide variety of super high-density transceiver modules and the flexibility

Jun 06, 2026

400G Optical Transceivers: What's the Difference Between OSFP and QSFP-DD?

Application Scenarios: Both QSFP-DD and OSFP are suitable for data center interconnect (DCI) scenarios, including direct attach copper cables (DAC), active optical cables (AOC), and fiber optic

May 08, 2026

QSFP-DD Optical Transceivers Unlocking Faster

The QSFP-DD (Quad Small Form-Factor Pluggable Double Density) optical transceiver is a revolutionary advancement in high-speed data

Jul 25, 2025

Cisco QSFP-DD800 Transceiver Modules Data Sheet

Regulatory and standards compliance Standards QSFP-DD MSA hardware Rev 6.01, QSFP-DD800 hardware specification GR-20-CORE: Generic

Dec 19, 2025

Cisco QSFP-DD and OSFP 800G ZR/ZR+ Coherent Optics Modules

Cisco QSFP-DD and OSFP 800G coherent optical modules are supported on Cisco switches and routers. For more details, refer to the Cisco Transceiver Modules Compatibility Matrix.

Mar 20, 2026

QSFP-DD Optical Transceivers – MapYourTech

QSFP-DD (Quad Small Form-Factor Pluggable Double Density) represents a transformative advancement in optical transceiver technology,

Mar 19, 2026

The Ultimate Guide to Cisco QSFP Optical Transceiver

Efficient and consistent data transmission is significant in the rapidly changing technological environment. Without a doubt, in high-speed networking

Nov 09, 2025

QSFP-DD vs OSFP: What Are the Differences?

QSFP-DD vs OSFP: Thermal Capacity and Power Consumption The QSFP-DD is smaller in size, so its thermal capacity is only 7 to 12 watts. While the OSFP is

Oct 27, 2025

Ultimate Guide to QSFP-DD 400G Optical Modules:

The QSFP-DD 400G optical module has become a key element in the fast-changing field of data transmission technology to improve network

Oct 06, 2025

FS 400G QSFP-DD: Complete Guide and Solutions

FS 400G QSFP-DD ER8 and QSFP-DD ZR transceivers can achieve high-speed transmission with PAM4 technology for the interconnect between the

Aug 10, 2025

400G QSFP-DD ZR+ Coherent Modules | GIGALIGHT

It provides high-speed data channels, IIC interface module control and state alarm reporting with 3.3 V power supplied. The QSFP-DD coherent optical module uses a 76-pin connector as an electrical

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QSFP-DD Optical Transceivers for High-Speed Connections

QSFP-DD ports incorporate a riding heatsink that can be sized independently of the optical module, added on top of the module, or placed between modules. This flexibility enables switch and routing

Apr 28, 2026

400G ZR/ZR+ pluggable coherent modules

400G modules and applications in the router-pluggable QSFP-DD format. Developed by the Optical Internetworking Forum (OIF) and released in March 2020, 400ZR is profile-optimized for high-density

Sep 14, 2025

Unlocking the Potential of 200G QSFP-DD: A Deep Dive into Optical ...

This blog will discuss the world of optical transceivers, which mainly includes the 200G QSFP-DD module. Understanding how this advanced technology increases data center

Apr 20, 2026

Cisco QSFP-DD Pluggable Open Line System (QSFP-DD OLS)

Product overview The Cisco® QSFP-DD Open Line System (QSFP-DD OLS) is a pluggable optical amplifier module that, together with the channel breakout options (described later), provides a simple

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QSFP-DD Optical form factor: An evolutionary approach

CMOS integration enables QSFP-DD to be built for these “complicated optics” which are already in design. To support that, the Optical

Jun 09, 2026

How to Achieve Interconnection Between OSFP and QSFP-DD Ports?

This article outlines key OSFP and QSFP-DD differences and offers four practical interconnection solutions to support scalable 400G/800G data center networks.

Oct 09, 2025

QSFP-DD Optical Transceivers – MapYourTech

QSFP-DD is an advanced hot-pluggable optical transceiver form factor that doubles the bandwidth density of traditional QSFP28 modules by

May 23, 2026

QSFP-DD vs OSFP vs QSFP56 vs QSFP112 | FiberMall

The demand for high-speed networking has skyrocketed with the rise of 5G, cloud computing, and data-intensive applications like AI and IoT. 400G

Dec 17, 2025

Ultimate QSFP Transceiver Guide: Types (40G/100G)

Confused by QSFP types? Decode the differences between QSFP+, QSFP28 (100G), and QSFP-DD. Learn how to select the right speed, connector (SR4 vs

Aug 14, 2025

400G OSFP/QSFP-DD/QSFP112 Module Introduction and Selection

The explosive growth of global data volume has placed higher demands on the bandwidth and performance of data center networks, making 400G optical modules a critical

Feb 04, 2026

400G/300G/200G QSFP-DD Digital Coherent Optics

The emerging OIF 400ZR and Open ZR+ MSA coherent transceivers in QSFP-DD and OSFP form factors generally have low transmit output power (-10 dBm),

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